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Maintenance

IN PROCESS INSPECTIONS (IPI)

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFPD 21-1, *Managing Aerospace Equipment Maintenance*. This instruction establishes procedures for In Process Inspections (IPI), as directed by AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*. When performing maintenance on assigned aircraft and equipment. This instruction is applicable to personnel assigned or attached to the 944th Fighter Wing aircraft maintenance activities. Note: Follow technical order (T.O.) guidance if conflicts arise due to updated T.O.s.

SUMMARY OR REVISIONS

This revision incorporates text format change, revises para 1.2, and reference publication titles in Attachment 1. The (I) indicates revisions from previous edition.

1. Responsibilities:

- 1.1. The squadron maintenance officers/superintendents will authorize only certified personnel to perform IPIs.
- 1.2. Flight/section supervisors will identify and submit, through squadron supervision, lists of their IPI requirements to Quality Assurance (QA). These requirements will be based for an additional inspection of performed maintenance to ensure quality and safety. The listing includes work unit codes, nomenclatures, and the step within the task where the IPI is required.
- 1.3. QA will evaluate the necessity for IPI requirements submitted and advise the squadron maintenance officers/superintendents on identified problem areas that might require IPIs to improve quality and safety. An approved IPI list will be published and distributed to applicable maintenance activities.
- 1.4. IPI requirements should be reviewed annually for currency and system application.

2. Procedures:

2.1. IPIs will require a certified production inspector to observe the accomplishment of identified tasks.

2.2. Documentation of IPIs will be as follows:

2.2.1. For on-equipment maintenance, a statement is entered in the discrepancy block of the applicable forms, "IPI required at step (number)." The person accomplishing the task is responsible for ensuring the IPI is completed at the appropriate step. The person doing the IPI will enter their signature, grade and employee number next to the IPI statement. The individual that signs the Red X and the IPI does not have to be the same person.

2.2.2. For off-equipment maintenance, a statement is entered on the appropriate forms or automated system stating, "IPI required at steps (number)." The person doing the task ensures the IPI is accomplished at that step. The person doing the IPI will enter their signature, grade and employee number next to the IPI statement.

CRAIG S. FERGUSON, Colonel, USAFR
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

| AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*

AFI 21-101, *Maintenance Management of Aircraft*

T.O. 00-20-1, *Preventative Maintenance Program General Policy Requirements and Procedures*

T.O. 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents*

T.O. 0-5-1, *AF Technical Order System*